

LAND RECLAMATION COMMISSION

STATE OF MISSOURI

P.O. BOX 176

JEFFERSON CITY, MISSOURI 65102

573-751-4041

Permit To Engage in Surface Mining

LAND RECLAMATION COMMISSION

ISSUES TO

MMD STONE, L.L.C.

Pursuant to "The Land Reclamation Act," RSMo, 2001, and on conformity with the statements

In the application, a permit is hereby granted to engage in surface mining of
limestone in the state of Missouri. The extent of the

Proposed mining operation(s) will be on 41 acres, more or less.

The locations of the operation(s) under this permit is/are as follows: **Renewal**

County	Section	Township	Range	Acres Renewed	Acres New	Total Acres	Site/Stream Name	Site Number
Cape Girardeau	28, 29	33N	14E	41	0	41	Neely's Landing Quarry	0071 ✓

This permit may be suspended or revoked upon violation of any or all of the conditions set forth in "The Land Reclamation Act," RSMo, 2001, or in such rules and regulations as are promulgated pursuant thereto by the Land Reclamation Commission.

IN WITNESS WHEREOF I have hereunto set my hand this 18th day of February 2004


DIRECTOR OF STAFF
Land Reclamation Commission

Permit No. 0046T
Effective Date 02/18/2004
Expiration Date 12/31/2004
MIO 780-1122 (6-95)

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MISSOURI DEPARTMENT OF NATURAL RESOURCES
LAND RECLAMATION COMMISSION
PERMIT RENEWAL FOR INDUSTRIAL MINERAL MINES

MISSOURI LAND RECLAMATION COMMISSION
P.O. BOX 176
JEFFERSON CITY, MO 65102-0176

NAME OF CORPORATION, COMPANY, PARTNERSHIP OR INDIVIDUAL MMD Stone, L.L.C.		DATE 3/4/04
ADDRESS 600 N.E. Quarry Dr.	CITY Jackson	STATE MO ZIP CODE 63755
CONTACT PERSON Marshall Hardison		TELEPHONE NUMBER 573-339-5800

FEES: COMPLETE SECTION I OR SECTION II

SECTION I. Fees: Open pit operators and those mining more than 5,000 tons of sand and/or gravel:

1. To compute the site fee complete the information below:

SITE NAME OR NUMBER (add a separate sheet for additional sites)	Mark each month that the site will be operated during the permit year	For sites operated less than six months per permit year pay \$150 For sites operated six months or more per permit year pay \$300
1. Neely's Land Quarry	Jan, Feb, Mar, Apr, May, Jun, Jul, Aug, Sep , Oct, Nov, Dec	\$ 300.00
2. 0071	Jan, Feb, Mar, Apr, May, Jun, Jul, Aug, Sep, Oct, Nov, Dec	\$
3.	Jan, Feb, Mar, Apr, May, Jun, Jul, Aug, Sep, Oct, Nov, Dec	\$
4.	Jan, Feb, Mar, Apr, May, Jun, Jul, Aug, Sep, Oct, Nov, Dec	\$
5.	Jan, Feb, Mar, Apr, May, Jun, Jul, Aug, Sep, Oct, Nov, Dec	\$
6.	Jan, Feb, Mar, Apr, May, Jun, Jul, Aug, Sep, Oct, Nov, Dec	\$
7.	Jan, Feb, Mar, Apr, May, Jun, Jul, Aug, Sep, Oct, Nov, Dec	\$
8.	Jan, Feb, Mar, Apr, May, Jun, Jul, Aug, Sep, Oct, Nov, Dec	\$
9.	Jan, Feb, Mar, Apr, May, Jun, Jul, Aug, Sep, Oct, Nov, Dec	\$
10.	Jan, Feb, Mar, Apr, May, Jun, Jul, Aug, Sep, Oct, Nov, Dec	\$

TOTAL SITE FEE **\$ 300.00**2. Acreage Fee \$5 X **41** number of acres bonded **\$ 205.00**3. Annual Permit Fee **\$ 500**4. Total Fee (Add totals from 1, 2 and 3) **\$ 1005.00**NOTE: If Total Fee exceeds \$2,500.00 then pay only **\$ 2,500**

SECTION II. FEES: Sand or gravel operators mining less than 5,000 tons per year:

1. Annual Permit Fee **\$ 300**

SIGNATURE OF APPLICANT **Raymond Smith** TITLE **Office Manager** DATE **02/4/04**

Appeared before me this **4th** day of **February**, 20**04**,
to me personally known, who executed the above as their free acts and deeds.

NOTARY PUBLIC EMBOSSEER SEAL

STATE OF

LOUISIANA

SUBSCRIBED AND SWORN BEFORE ME, THIS

4th

DAY OF

FEB

YEAR

2004

NOTARY PUBLIC SIGNATURE:

MY COMMISSION

EXPIRES

Mark Hardison
NOTARY PUBLIC NAME (TYPED OR PRINTED)

USE RUBBER STAMP IN CLEAR AREA BELOW.

FOR DEPARTMENT USE ONLY - APPROVE

DATE APPROVED

2-11-04

PERMIT NUMBER

00967

EXPIRATION DATE

12-31-04



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To be completed for each separate area of disturbance associated with mining operations.

SITE NAME OR NUMBER

NEELY'S LANDING QUARRY

PERMIT NUMBER

0046t

COMPANY NAME

MMD STONE, L.L.C.

COUNTY

CAPE GIRARDEAU

1/4 SECTION

SECTION

28/29

TOWNSHIP

33N

RANGE

14E

ACRES

41

RIVER OR STREAM NAME (FOR IN-STREAM ACRES)

N/A

MINERAL COMMODITY

LIMESTONE

ESTIMATED TONS/YEAR (FOR GRAVEL SITES)

N/A

NAME OF LANDOWNER (ATTACH LIST IF MORE THAN ONE)

MMD STONE, L.L.C.

ADDRESS

600 N.E. QUARRY DRIVE

CITY

JACKSON

STATE

MO

ZIP CODE

63755

SOURCE OF RIGHT TO MINE (CHECK ONE):

☐ MINERAL DEED

☐ LEASE

☒ WARRANTY DEED

☐ VERBAL AGREEMENT

☐ OTHER (DESCRIBE):

DATE OF AGREEMENT

09/27/02

MINERAL RIGHTS OWNER (ATTACH LIST IF MORE THAN ONE)

Same as above

ADDRESS

CITY

STATE

ZIP CODE

SOURCE OF RIGHT TO MINE (CHECK ONE):

☐ MINERAL DEED

☐ LEASE

☐ WARRANTY DEED

☐ VERBAL AGREEMENT

☐ OTHER (DESCRIBE):

DATE OF AGREEMENT

NOTE: Each site must be shown on a map and be included in a public notice and an approved mine plan.



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MINE PLAN**RECEIVED RECEIVED**

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JEFFERSON CITY, MO 65102-0176

TYPE OF PLAN (CHECK ONE):

☐ SHORT TERM, FOR ONE PERMIT YEARCOMPANY NAME MMD STONE, L.L.C.☒ LONG TERM, FOR PERIOD THROUGH DATE:

DESCRIPTION OF SITE PRIOR TO LAND RECLAMATION COMMISSION PERMITTING (BY APPLICANT OR PRIOR OPERATOR), INCLUDING SOIL, VEGETATION AND TOPOGRAPHY.

ROLLING HILLS AND ROCK BLUFFS. MOST OF THE MINE AREA LIES IN AN AREA WHICH IS STEEPLY SLOPED AND HEAVILY WOODED. TOP SOIL IS VERY THIN AND ROCKY. THE AREA IS BORDERED TO THE EAST BY THE MISSISSIPPI RIVER.

OPERATION PLAN - 10 CSR 40-10.020(2)(D)1.

A. TOPSOIL

AVERAGE DEPTH OF TOPSOIL, PRIOR TO LAND RECLAMATION COMMISSION PERMITTING

4 INCHES

IS TOPSOIL TO BE SOLD OR DISCARDED OFFSITE?

☐ YES OR ☒ NO

DESCRIBE METHODS AND EQUIPMENT USED FOR TOPSOIL REMOVAL

AFTER TREES ARE CLEARED WITH DOZERS, THE TOP 20 FEET OF OVERBURDEN, WHICH CONSISTS OF 20 OF WEATHERED RESIDUAL CHERTY CLAY, WILL BE REMOVED BY A FOUR YARD MINERY SHOVEL, FRONT END LOADER, EXCAVATOR AND CRAWLER DOZER. NO NEW AREA WILL BE DISTURBED DURING THIS PERMIT YEAR

DESCRIBE METHODS AND EQUIPMENT USED FOR TOPSOIL STORAGE AND PROTECTION

TOPSOIL AND OVERBURDEN WILL BE MOVED BY END DUMP TRUCKS TO AN AREA NEAR THE PIT. THE STOCKPILE TOP WILL BE BURNED TO PREVENT OFF-SITE EROSION. THIS MATERIAL IS VERY STABLE, THEREFORE, THERE IS MINIMAL EROSION. TOPSOIL STOCKPILES WILL BE PLACED IN A STABLE AREA WITHIN THE PERMIT BOUNDARY AND SEEDED WITH APPROVED VEGETATION TO PREVENT EROSION.

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B. SPOIL

DESCRIBE METHODS AND LOCATION OF SPOIL PLACEMENT AND DISPOSAL

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ALL OVERBURDEN REMOVED FROM THE PIT WILL BE PLACED IN THE MINED OUT PORTIONS OF THE PIT AND GRADED TO TRAVERSABLE SLOPES (3:1). BEFORE TOPSOIL IS REPLACED.

C. ACID MATERIALS

DESCRIBE METHODS AND EQUIPMENT USED FOR HANDLING ACID MATERIALS (IF NONE IS ANTICIPATED, WRITE "NONE" BELOW)

NONE

D. PIT INFORMATION (GIVE ALL DIMENSIONS IN FEET)

DESCRIBE LOCATION AND ORIENTATION OF PIT, IF NOT CLEAR ON SITE MAPS

SEE SITE MAP

YES**NO**☐☒

Will any excavation be at or within fifty feet (50') of the right-of-way of any public road?

☐☒

Will any highwall consisting of unconsolidated materials be left within fifty feet of the right-of-way of any public road? (NOTE: For unconsolidated materials left in place, a slope of no more than forty degrees may start near the right-of-way, and in no case may the excavation be closer to the right-of-way than fifty feet or twenty-five feet plus one and one-half (1 ½) times the depth of unconsolidated material, whichever is greater, unless a variance is granted by the Commission.)

☐☒

Will any excavation start at or within fifty feet (50') of any property line? (NOTE: If the answer is "YES", a safety barrier may be needed.)

A. RECLAMATION PLAN - 10 CSR 40-10.020(2)(D)2.

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REVEGETATION (Attach additional sheets, if needed)

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REVEGETATION MIX #1

PURPOSE OR LAND USE

SEEDING OR PLANTING TIME

#1

WILDLIFE

3/1-5/16 AND 8/15-10/1

DESCRIBE METHODS AND EQUIPMENT TO BE USED FOR SEEDING OR PLANTING

DURING THE FIRST SPRING OR FALL FOLLOWING TOPSOIL REPLACEMENT,
THE SEEDING MIX WILL BE BROADCAST AND HARROWED.

Lime and fertilizer will be applied according to recommendations based upon soil test analyses from a qualified soils lab. Mulch will be applied to all slopes exceeding 5:1.

SEEDED SPECIES	POUNDS / ACRE	TREE OR SHRUB SPECIES	STEMS / ACRE
LADINO CLOVER	2		
RED CLOVER	6		
LOREAN LESPEDEZA	10		
REVEGETATION MIX #2	PURPOSE OR LAND USE	SEEDING OR PLANTING TIME	
#2			

DESCRIBE METHODS AND EQUIPMENT TO BE USED FOR SEEDING OR PLANTING

N/A

Lime and fertilizer will be applied according to recommendations based upon soil test analyses from a qualified soils lab. Mulch will be applied to all slopes exceeding 5:1.

SEEDED SPECIES	POUNDS / ACRE	TREE OR SHRUB SPECIES	STEMS / ACRE

ATTACH ADDITIONAL SHEETS FOR ADDITIONAL SEED MIXES.

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B. GRADING

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DESCRIBE PROPOSED RECLAIMED TOPOGRAPHY, INCLUDING SLOPES

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PERMITTED ACREAGE WILL BE PLACED IN WATER RESERVOIR CATEGORY. WHEN THE ORE RESERVE LIMITS ARE REACHED, ADJACENT ACREAGE WILL BE GRADED AND SEEDED FOR WILDLIFE HABITAT. DUE TO THE FACT THAT THE ORE BODY HAS NOT BEEN COMPLETELY DELINEATED BY CORE DRILLING, IT IS NOT POSSIBLE AT THIS TIME TO DETERMINE THE TOTAL AFFECTED AREA.

C. DESCRIBE THE GENERAL SEQUENCE AND TIMING OF THE FOLLOWING ACTIVITIES**GRADING**

GRADING AND SOIL REPLACEMENT WILL BE COMPLETED WITHIN 12 MONTHS OF THE EXPIRATION DATE OF THE PERMIT YEAR IN WHICH THE AREA BECOMES PERMANENTLY INACTIVE.

REPLACEMENT OF TOPSOIL

TOPSOIL WILL BE REPLACED TO UNIFORM DEPTH OF 12 INCHES AND DISCED TO REDUCE COMPACTION. TOPSOIL WILL BE REPLACED WITHIN ONE YEAR OF PERMIT EXPIRATION ON ALL MINED OUT PORTIONS.

REVEGETATION

REVEGETATION WILL BE COMPLETED WITHIN 24 MONTHS. ALL TOPSOIL AREAS WILL BE SEEDED WITH APPROVED VEGETATION DURING THE FIRST OPTIMUM SEEDING PERIOD FOLLOWING TOPSOIL REPLACEMENT.

AVERAGE DEPTH OF REPLACED TOPSOIL (INCHES)

12

D. USE OF LAND WHEN RECLAIMED

Estimate acreage of each land use below, after reclamation

ESTIMATED ACRES:

Wildlife (forest or other habitat with livestock excluded)

6 ACRES

Agriculture (pasture, cropland, and horticultural)

N/A

Development (residential, industrial and recreational)

N/A

Water impoundments (for wildlife, agriculture, or development)

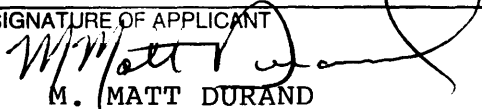
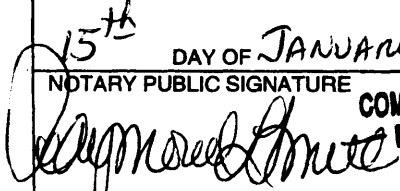
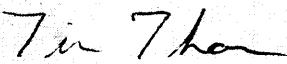
35 ACRES

JAN 30 2003

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By my signature, I attest to the following:

1. All statements made on this Mine Plan Form are correct, complete, and true, to the best of my knowledge.
2. I or the company I am authorized to represent intends to mine in accordance with this Mine Plan Form, and in accordance with the Missouri Land Reclamation Act, Sections 444.760 through 444.790, RSMO 2001, and all rules, regulations, orders, decisions and permits of the Missouri Land Reclamation Commission pertaining to my company's surface mining operations.
3. I have obtained the approval of all landowner's, (for all lease agreements made after August 28, 1990 on leased land) for all proposed post-mining land uses.
4. I have obtained the approval of all landowner's, (for all lease agreements made after August 28, 1990 on leased land) for all proposed seed mixtures.
5. I have a valid agreement with all landowners which gives me the right to grant access to the Director of the Missouri Land Reclamation Commission and authorized representatives, and I grant such access, and further where I have no such right, I have attached signed affidavits from the landowners, granting such access.

SIGNATURE OF APPLICANT  M. (MATT) DURAND		TITLE MEMBER/MANAGER	DATE 1-15-03
NOTARY PUBLIC EMBOSSEER SEAL	STATE LOUISIANA	COUNTY (OR CITY OF ST. LOUIS) ST. MARTIN	
	SUBSCRIBED AND SWORN BEFORE ME, THIS 15 th DAY OF JANUARY 20 03		USE RUBBER STAMP IN CLEAR AREA BELOW
	NOTARY PUBLIC SIGNATURE 	MY COMMISSION EXPIRES AT DEATH.	
	NOTARY PUBLIC NAME (TYPED OR PRINTED) RAYMOND L. Smith		
FOR DEPARTMENT USE ONLY: APPROVED BY 		DATE APPROVED 6-19-03	PERMIT NUMBER 00466

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Locator Map

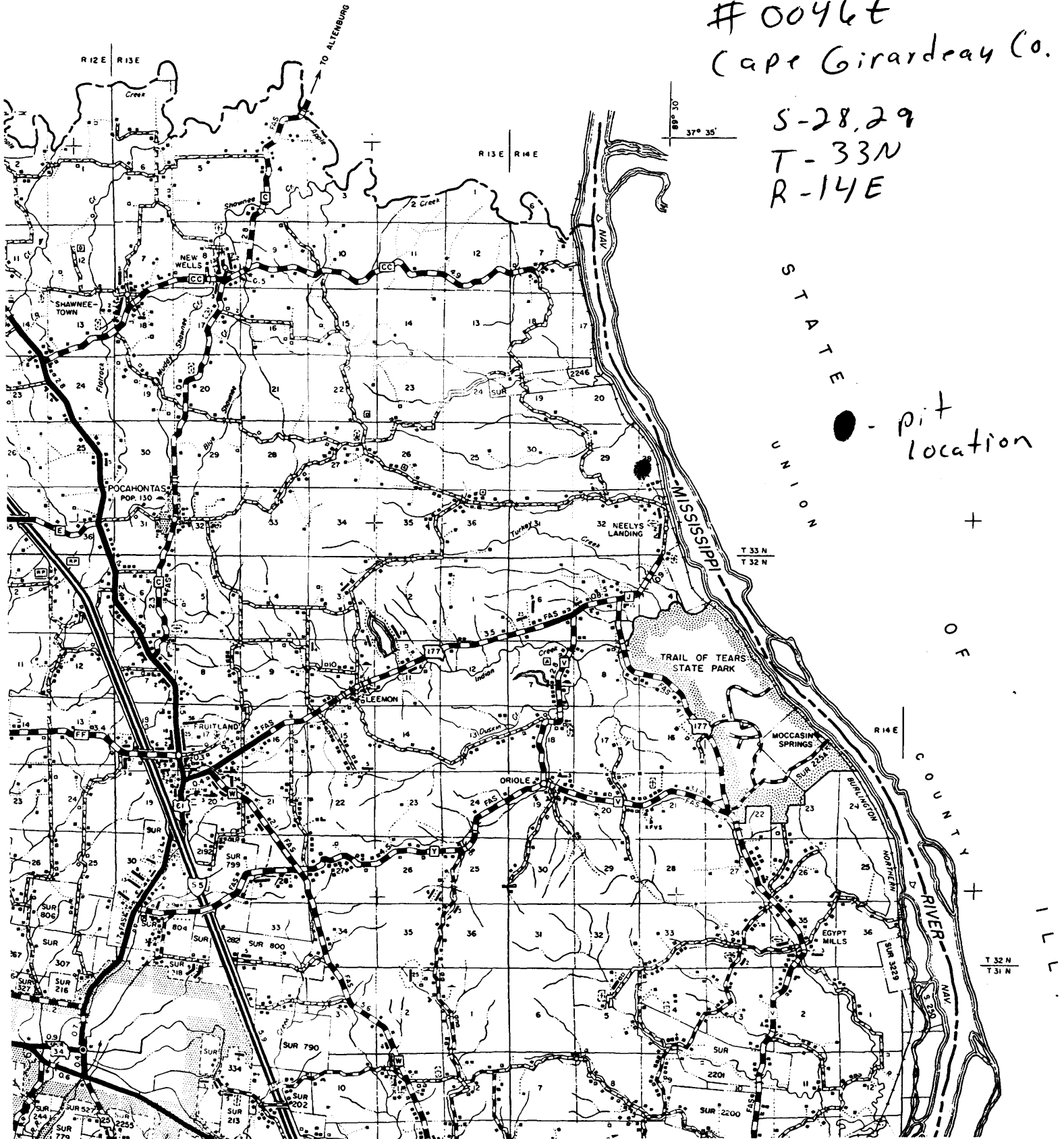
COUNTY

MMD Stone, LLC
Neely's Landing
#0046t
Cape Girardeau Co.

S-28,29
T-33N
R-14E

STATE
UNION

● - pit
location



MMD Stone, LLC #0046t Cape Girardeau
 S-28,29 T-33N R-14E

[Plate 4 -- Reserve Map]

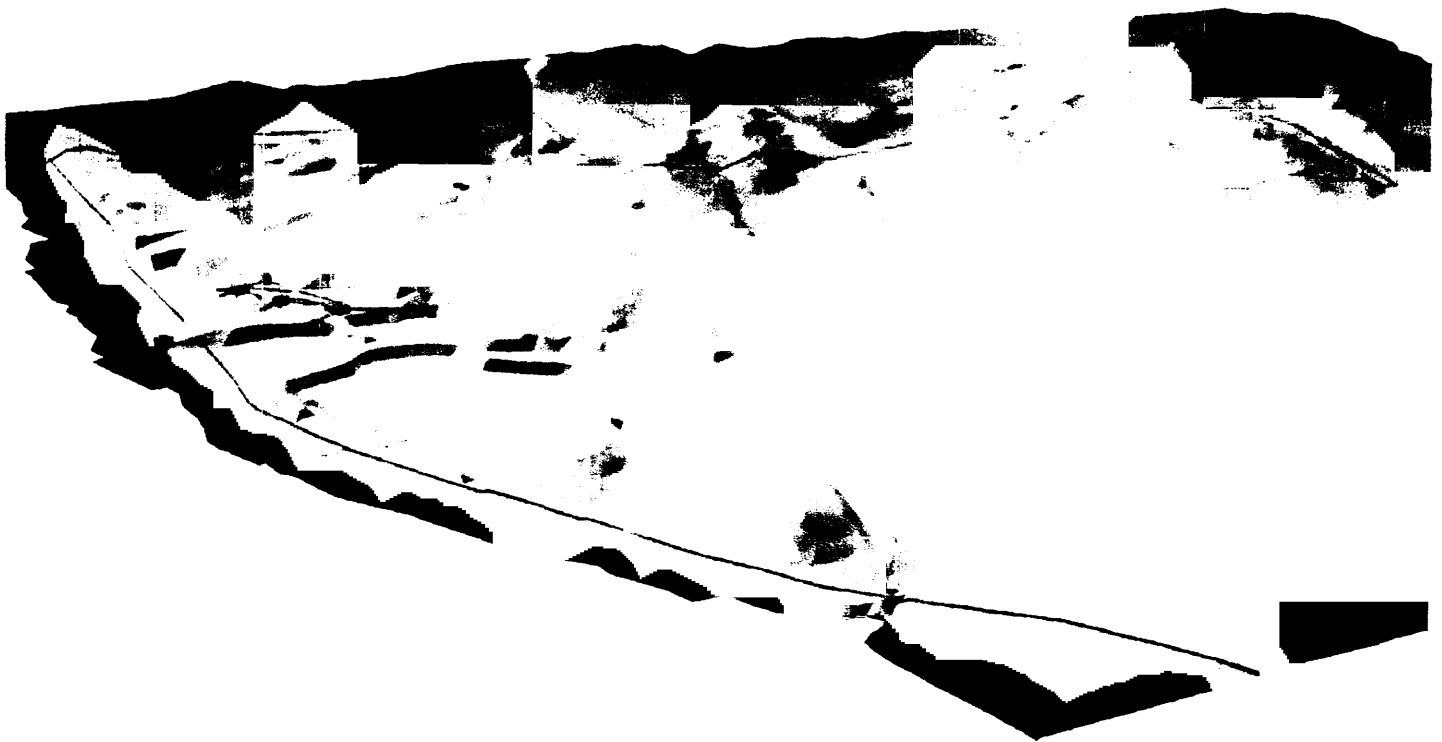
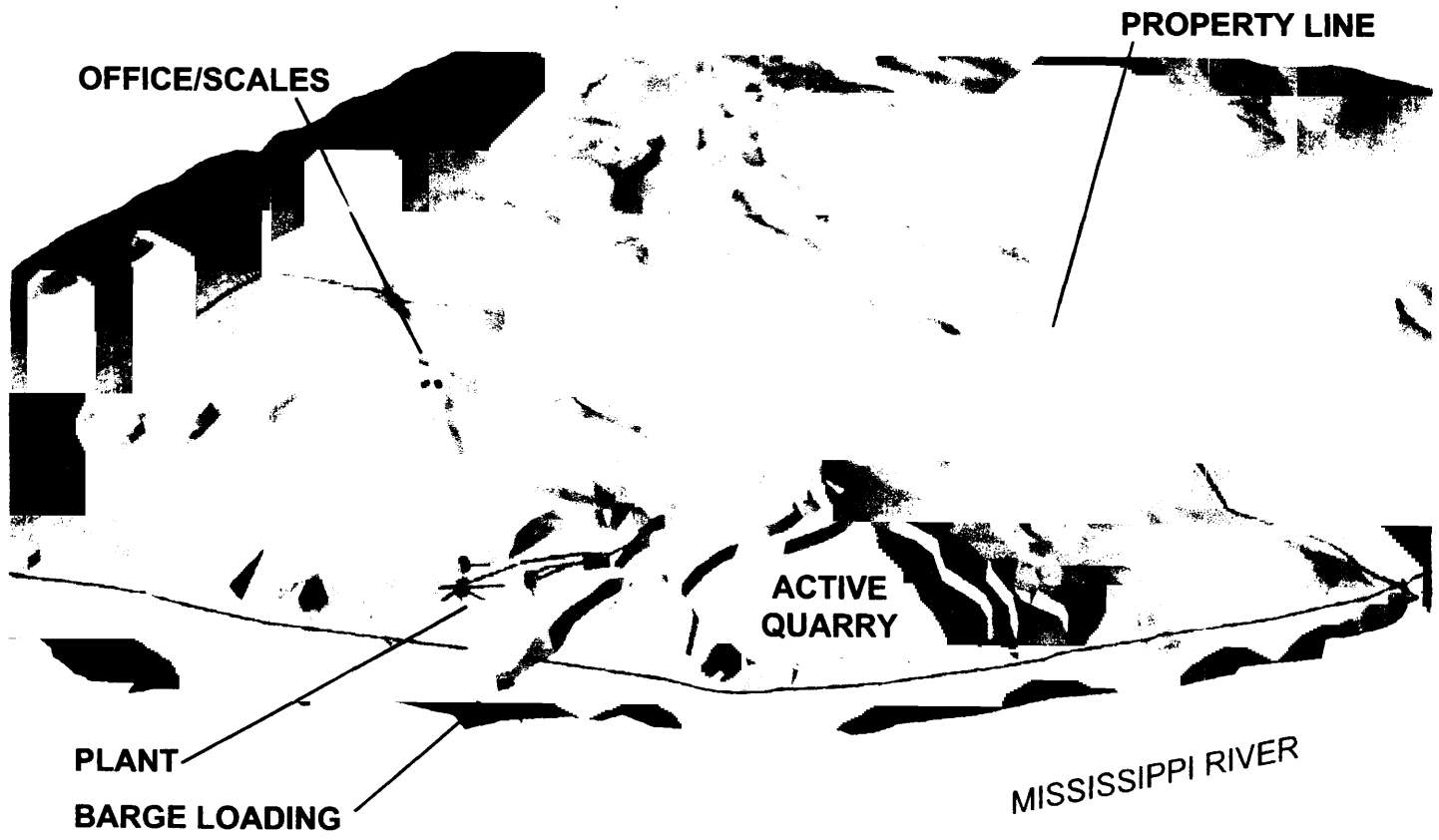


PLATE 4

Geo *Century* integration
 www.geocentrio-intl.com

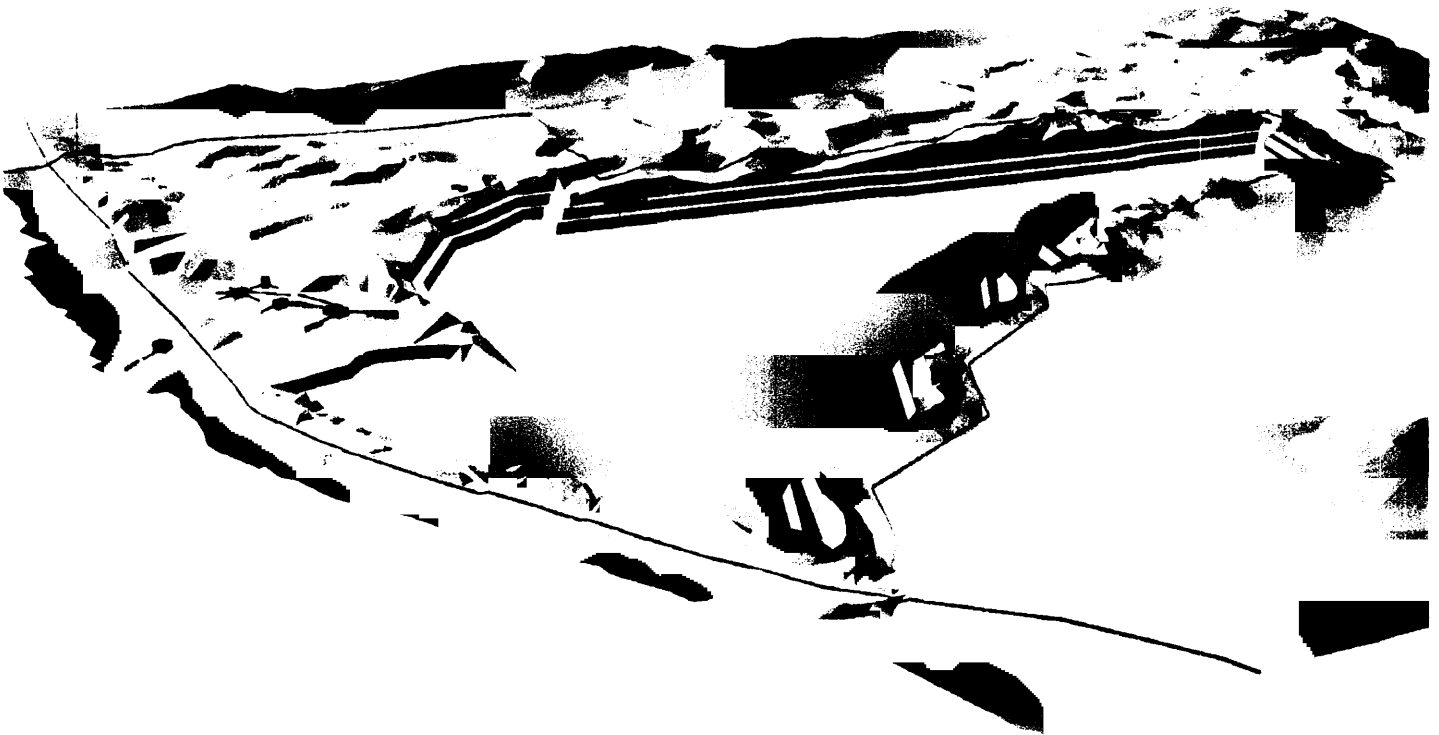
1-21-03

CURRENT PIT -- 3D SCHEMATICS



1-21-03

ULTIMATE PIT – 3D SCHEMATICS



1-21-03